2009 Annual Meeting Planning Committee

Rachael Bower | University of Wisconsin-Madison
Sharon Clark | UCAR, NSDL Technical Network Services
Donna Cummings | UCAR, NSDL Resource Center
Anne Diekema | Utah State University
Susan Jesuroga | UCAR, NSDL Resource Center
Lois McLean | McLean Media
Carol Minton Morris | Cornell University
Robert Payo | UCAR, NSDL Resource Center
Lutishoor Salisbury | University of Arkansas
David Yaron | Carnegie Mellon University

Acknowledgements

NSDL would like to thank the National Science Foundation for its generous support and advocacy.
### Schedule Overview

**Tuesday, November 17th**

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<td>Room 1</td>
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<td>Closing Remarks: Ithaka Case Studies in Sustainability</td>
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What you need to know

All the meeting events will be held at the
Washington Marriott at Metro Center
775 12th Street NW | Washington, DC 20005 | 202-737-2200

Posters

The Junior Ballroom will be open for viewing posters and networking with colleagues at the poster reception on Tuesday from 6:00pm – 8:30pm. Hors d’oeuvres, meeting tables, and wireless Internet access will be provided. Posters will remain in the Junior Ballroom for the duration of the meeting with tear down on Thursday at 1:00pm.

Schedule Notes

Schedule information is included in this program and in your meeting packet, including a list of Lightning Talks and poster abstracts. For additional information go to: http://nsdlnetwork.org/annual_meeting

Tracking the Conference

Commentary >> Twitter
We invite all attendees to comment about the meeting and sessions on Twitter by adding a “#nsdl2009” hashtag to your tweets.
http://search.twitter.com/search?q=%23nsdl2009

Photos >> Flickr
If you upload photos from the 2009 Annual Meeting to Flickr, you can tag them with ‘nsdl2009.’ http://www.flickr.com/photos/tags/nsdl2009

Presentation Sharing >> Slideshare
If you share your presentations from the 2009 Annual Meeting, you can tag them with ‘nsdl2009.’ http://www.flickr.com/photos/tags/nsdl2009

Social Bookmarking >> Diigo
Discovered great websites and tools at the meeting? Share them on Diigo by tagging them with ‘nsdl2009.’ http://www.diigo.com/tag/nsdl2009?tab=153

Social Bookmarking >> Delicious
Delicious is another social bookmarking tool that you can use to share websites that you discovered at the 2009 NSDL Annual Meeting. Tag your resources with ‘nsdl2009.’ http://delicious.com/tag/nsdl2009
NSDL Contacts

National Science Foundation
Lee Zia, NSDL Program Officer
Hal Richtol, NSDL Program Officer
Dave McArthur, Evaluation Consultant

NSDL Resource Center
Kaye Howe, (PI) Director
Susan Van Gundy, (Co-PI) Deputy Director
Mary Marlino, (Co-PI) Evaluation

NSDL Technical Network Services
Carl Lagoze, (PI) Cornell University
Tamara Sumner, (Co-PI) University of Colorado-Boulder
Mike Wright (Co-PI) Digital Learning Sciences
Karon Kelly, Director, Digital Learning Sciences
**November 17**

**Tuesday**

**Washington Marriott at Metro Center**

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**Welcome**

Susan Jesuroga, Annual Meeting Chair

**Opening Remarks**

Hal Richtol, NSDL Program Officer, National Science Foundation
Kaye Howe, NSDL Resource Center
Carl Lagoze, NSDL Technical Network Services
Linda Slakey, Director, Division of Undergraduate Education, National Science Foundation

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Washington Marriott at Metro Center

7:30 am – 8:30 am               Outside Junior Ballroom
BREAKFAST

8:30 am – 9:45 am               Junior Ballroom
Panel on Cyberlearning: Fostering Learning in a Technology-Enriched World
Susan Jesuroga, Moderator
Arlene De Strulle (NSF), Bruce Mason, Kimberly Lightle, Cathy Manduca, Darrell Porcello

Delve into the realities of cyberlearning, as this panel provides insights to help the NSDL community unpack the definition of cyberlearning and discusses how cyberlearning can contribute to different STEM education communities.

9:45 am – 10:15 am              BREAK

10:15 am – 11:15 am             Room 1
Supporting Social Interaction in the Ensemble Pathway
Lillian Cassel, Lois Delcambre, Ed Fox, Rick Furuta, Peter Brusilovsky

The Ensemble site can be described as a community center, and this presentation will illustrate the use of Drupal, Second Life, Facebook and some custom tools for supporting social groupings of computing education collaborators.
10:15 am – 11:15 am  Room 2
Best Practices on Collecting and Analyzing Metrics Data to Support a Comprehensive Project-Level Evaluation Strategy
Kimberly Lightle, Ed Almasy, Lyle Barbato, Sharon Clark, Yolanda George, Sherry Hsi, Cathy Lowe, Paul Mackinney, Eileen McIlvain
The NSDL Metrics Working Group will report on efforts and share resources to help projects correlate activities, metrics data, and impact.

10:15 am – 11:15 am  Room 3
Tales of a Middle School Student Library Design Team
Sarita Pillai
This session will showcase a series of math/science virtual learning experiences, for audience feedback, designed with a student co-design team as part of the Middle School Portal 2 project.

Personalizing Search
Anne Diekema, Lynne Davis
Come see why the process of resource discovery in digital libraries needs to be molded to allow personal and social information management to improve usability and library effectiveness.

11:15 am – 11:30 am  BREAK

11:30 am – 12:30 pm  Room 1
Open Source Physics Content Delivery: Computation, Curriculum and Libraries
Bruce Mason
This talk showcases the use and dissemination of computational models using the Open Source Physics library, the Easy Java Simulations modeling environment, and the ComPADRE Pathway.

Conference Services – A Piece of the Sustainability Puzzle
Lyle Barbato, Bruce Mason
Hear about the role of conference services in topical digital libraries and the sustainability model ComPADRE has adopted for providing such services.
11:30 am – 12:30 pm  Room 2
Diving into Data: Web Metrics and Educational Data Mining to Evaluate Digital Libraries
Sherry Hsi, mimi recker, Bob Donahue

Drawing from the Instructional Architect and Exploratorium Learning Resources Collection, learn how to use web metrics and educational data mining to infer impact.

11:30 am – 12:30 pm  Room 3
The EduPak Software Platform
John Weatherly, Jim Blake, Kimberly Lightle, Jonathon Ostwald, Darrell Porcello

This panel will describe EduPak, the NSDL platform for building digital collections and rich learning applications, featuring examples of use from NSDL projects.

12:30 pm – 1:30 pm  LUNCH  Outside Junior Ballroom

1:30 pm – 2:30 pm  Room 1
Using Science Literacy Maps
Ted Willard, John Weatherly

From the people who brought you the Science Literacy Maps, an overview of how to use them to improve the coherence of your curriculum and identify resources.

Leveraging Across NSDL to Improve Climate Literacy and Energy Awareness
Tamara Ledley, Mark McCaffrey, Kimberly Lightle, Ted Sicker, Joel Rosenberg

The Climate Literacy and Energy Awareness Network (CLEAN) Pathway project members will explore with other NSDL Pathway and Collection projects opportunities to leverage resources and community engagement mechanisms for the benefit of NSDL.
Use and Non-use of Digital Learning Materials: Results of a Survey of Physics Faculty

Glenda Morgan, Bruce Mason, Flora McMartin, Josh Morrill, Ellen Iverson, Alan Wolf

Learn about the results of a survey of physics faculty members and teachers conducted in collaboration with ComPADRE and the American Association of Physics Teachers and what they tell us about the use of digital resources and how patterns of usage vary across a number of demographic characteristics.

AMSER and ATE Central: Collaboration with the ATE Community

Rachael Bower, Ed Almasy

This session will provide an overview of the ATE Central project which grew out of collaboration between AMSER and the ATE (Advanced Technological Education) community.

Contributing Collections to NSDL: A How To

Katy Ginger, Tim Cornwell, Laura Lusk

Gain an understanding of the new focus of the NSDL collection, tools and methods for accessioning collections and tips for creating quality metadata.

A Journey into Open Access Publishing Utilizing Open Source Software

Amy Chang, Kelly Gull, KaRyn Daley, Michelle Slone

Hear how open source publishing software has enabled the American Society for Microbiology’s Journal of Microbiology & Biology Education to become open access after 3 years of subscriptions.

Trends in Textbook Publishing

Mike Luby

Open discussion concerning recent trends in college textbook publishing and how these developments might present opportunities for Pathways and NSDL in general.
2:45 pm – 3:45 pm  Room 2
Critical Trends in K12 Education
Laurie Smith, Susan Van Gundy

Find out the latest trends in K12 education, examined through several specific lenses: Project Tomorrow’s data surveys, and exploring how students comprise a “Digital Advance Team”; the 21st Century Skills Map for Science, and how NSDL can support educators in effecting its recommendations; and discussion of the emerging need for, challenges to, and implications for K12 education.

2:45 pm – 3:45 pm  Room 3
Metasearch XML Gateway Services for Enhancing Access to the STEM Journal Literature
William Mischo, Josh Bishoff

The University of Illinois at Urbana-Champaign Libraries has developed and implemented several metasearch-based services to enhance access to and visibility of STEM journal literature and to complement the NSDL.org repository content.

Integral: Scalable Digital Library Architecture
Min Song, Mary Ho

Learn about Integral, a flexible, scalable architecture for digital libraries and its approach for automatically linking related information and services throughout and across these online repositories.

3:45 pm – 4:00 pm  BREAK

4:00 pm – 4:30 pm  Room 1
Advanced Distributed Learning Initiative Update
Paul Jesukiewicz

The Director of the Advanced Distributed Learning (ADL) initiative will update the NSDL community on ADL activities and roadmap including SCORM, CORDRA and registries.
4:00 pm – 4:30 pm  Room 2  
**Bridging the Digital Accessibility Gap**  
K. Selcuk Candan  
Learn about “Middleware for Accessible Information Spaces on NSDL (MAISON)”, which aims to improve participation in NSDL of teachers, librarians, and learners who are blind by implementing open web-based service APIs for implementing navigation interfaces that reduce the complexity of the information space and provide previews to prevent user disorientation.

4:00 pm – 5:00 pm  Room 3  
**Creating Science and Math Teacher-Leaders Who REALLY Use Digital Resources: Lessons Learned from Working with Robert Noyce Scholars**  
David Andrews, Jaime Arvizu, Elizabeth Ambos, Jennifer Bradford, Frank Garcia, Chris Borquez, Laura Henriques, Meredith Ashbran, Sara Meadows  
Over the last two years, our “Building Locally-Linking Globally” project has educated and empowered more than 100 Robert Noyce Scholars in the use of NSDL, MERLOT, and ePortfolio resources and tools. Several of these educators will share their teaching approaches, particular with respect to learning gains achieved through these resources in high-needs classrooms.

4:30 pm – 5:30 pm  Room 1  
**Getting to Know CWIS 2.0**  
Ed Almasy, Rachael Bower  
This hands-on workshop will provide participants with an overview of Scout’s open source portal software, CWIS. Handouts and individual CWIS installations will be provided.

4:30 pm – 5:30 pm  Room 2  
**Access for All: NSDL Accessibility Portal**  
Madeleine Rothberg, Peter Pinch, Joel Rosenberg  
WGBH is building an accessibility portal for NSDL. In this hands-on session, try accessibility tools in Teachers’ Domain and SMILE and learn how to integrate your collection.
### November 19

**THURSDAY**

**Washington Marriott at Metro Center**

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<td>Breakfast round table with NSF Officers. Come and talk with NSF officers about sustainability and other concerns of established collections and services.</td>
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<td>7:30 am – 8:30 am</td>
<td>Room 2</td>
<td>Quality Control in DL Content: What Are the Issues? Marsha Matyas. Learn about strategies used by BEN libraries to assure quality of resources (e.g., scientific accuracy, safety, use of organisms in teaching) by establishing standards and review processes.</td>
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<td>Room 1</td>
<td>Alignment for Dummies: How to Refine the Way You Align Ted Willard, Francis Molina. Project 2061 has provided guidance to NSDL projects on aligning resources to K-12 education standards. We share some of our best practices in this session.</td>
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8:30 am – 9:30 am  Room 2
Developing an Evaluation Toolkit for Pathways and Other Collections
Glenda Morgan, Flora McMartin, John Morrill, Ellen Iverson, Alan Wolf
Gain insights on the process of transforming a survey, from a nation-wide study of how faculty use digital learning resources, into an instrument that can be used by others to do their own evaluations and studies.

Implementing User Panels to Evaluate Digital Libraries
Flora McMartin, Josh Morrill
In this presentation, we will describe User Panels as a method for evaluating digital libraries, which is longitudinal in nature and allows for study of behaviors and attitudes over time.

8:30 am – 9:30 am  Room 3
Lightning Talks
mimi recker, Kimberly Lightle, Sherry Hsi, Darrell Porcello, Lois McLean, Ed Almasy, Sam Donovan, Bruce Mason, Min Song, K. Selcuk Candan, Anne Diekema
Hear about the latest project results from a variety of speakers in the NSDL community.

9:30 am – 9:40 am  BREAK

9:40 am – 10:40 am  Room 1
CPALMS: Florida’s Curriculum Planning and Learning Management System for Teachers Putting Standards into Practice
Danielle Sherdan, Rabieh Razzouk, Kimberly Lanier
CPALMS: an intuitive and customizable web-based portal that integrates professional support tools and high-quality instructional resources aligned to Florida's standards.

Activities and Lessons Learned from SMILE Pathway
Darrell Porcello, Sherry Hsi, Joel Rosenberg
Learn soup-to-nuts on how the Science Mathematics Informal Learning Educator’s team created a Pathway through the customization of readily available tools.
9:40 am – 10:40 am    Room 2
Implementing Web 2.0 Functionalities on NSDL Portals
Daniella Quinones, Ted Sicker, Kimberly Lightle, Robert Payo
Learn how various NSDL portals are using web 2.0 functionalities to provide environments for participation from and among end users.

Qualitative Research with Middle School Students on Technology Design, Uses and Preferences
Sarita Pillai, Kimberly Lucas
Hear about the results of qualitative research activities (focus groups and a 1000+ person survey) with middle school students in the design of virtual learning experiences for youth as part of the Middle School Portal 2 project.

9:40 am – 10:40 am    Room 3
ASN Toolkit: Linking Cyber Learning Systems through Achievement Standards
Diny Golder, Jillian Dellit
The Achievement Standards Network (ASN) Toolkit pulls together Web-based services to facilitate a cataloger’s efforts in generating metadata and correlating NSDL resources to achievement standards.

Automated Metadata Generation
Robby Robson
See a demonstration and details of machine generation of metadata for documents and text streams, and find out about applications available to digital libraries.

10:40 am – 10:50 am    BREAK
10:50 am – 11:50 am  Room 1
Recommender Systems, Contextualization and Personalization in NSDL: Current and Future Research Directions

Keith Maul, Brett Shelton, Joel Duffin, mimi recker, Frank Shipman, Todd Will

Recommender systems provide a host of new techniques and technologies for enhancing the value and utility of digital library resources. This panel will explore several ongoing recommender system projects within NSDL and examine future collaborations and opportunities.

10:50 am – 11:50 am  Room 2
Open Educational STEM Resources in the Middle School

Christine Loew, Kimberly Lightle, Mary Henton, Anne Schreiber, Peter Levy

In today’s restrictive budget environment school districts are seeking out new innovative options to providing high-quality STEM curriculum. Curriki and the MSP2 project provide a vision for the future that advances free and open educational resources.

The Math Images Project

Gene Klotz

The Math Images Project is a digital library of potential broad interest, as well as our method of production, which is of considerable educational value as well.

10:50 am – 11:50 am  Room 3
Science Pipes in the Classroom: Plumbing the Depths of Biodiversity

Will Morris, Courtney Wilson

Try out Science Pipes for user-friendly analysis of large datasets and see its application in student investigations of Amazonian biodiversity.

IsoveraDL: Exploring a Sustainable Digital Library using SaaS and Open Source Software

Shakib Mostafa, Cal Collins, Susan Musante

Panel discussion on how organizations can maintain sustainable digital libraries in a cost effective way using the SaaS offering of the Open Source IsoveraDL Collections Tool.
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<td>11:50 am – 12:15 pm</td>
<td>BREAK</td>
<td></td>
</tr>
<tr>
<td>12:15 pm – 1:00 pm</td>
<td>LUNCH</td>
<td>Junior Ballroom</td>
</tr>
</tbody>
</table>

**Closing Plenary**  
**Ithaka Case Studies in Sustainability: Lessons for NSDL**

Kate Wittenberg

Will your digital resources and services survive and thrive? This was the central question driving the Ithaka Case Studies in Sustainability. We will hear from Kate Wittenberg, formerly with the NSDL Core Integration group and now the Project Director of Client and Partnership Development for Ithaka, as she walks us through options and obstacles facing projects such as NSDL.

**1:00 pm**  
**Meeting Adjourns**